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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/531,810	04/18/2005	Masaru Yamaoka	10873.1682USWO	3671
52835 7:	590 09/21/2006		EXAM	INER
HAMRE, SCI	HUMANN, MUELLE	EDUN, MUHAMMAD N		
P.O. BOX 2902 MINNEAPOLIS, MN 55402-0902			ART UNIT	PAPER NUMBER
••••••••••••••••••••••••••••••••••••••			2627	
	•		DATE MAIL ED: 09/21/200	6

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
Office Action Summary		10/531,810	YAMAOKA ET AL.			
		Examiner	Art Unit			
		MUHAMMAD N. EDUN	2627			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SH WHIC - Exter after - If NO - Failu Any (ORTENED STATUTORY PERIOD FOR RECHEVER IS LONGER, FROM THE MAILING asions of time may be available under the provisions of 37 CF SIX (6) MONTHS from the mailing date of this communication of period for reply is specified above, the maximum statutory per to reply within the set or extended period for reply will, by streply received by the Office later than three months after the red patent term adjustment. See 37 CFR 1.704(b).	G DATE OF THIS COMMUNICATED ATTEMPTS OF THIS COMMUNICATED ATTEMPTS. Griod will apply and will expire SIX (6) MONTH tatute, cause the application to become ABA	ATION. lly be timely filed HS from the mailing date of this communication. NDONED (35 U.S.C. § 133).			
Status						
1)⊠	Responsive to communication(s) filed on 1	18 April 2005.				
2a) <u></u> ☐	This action is FINAL . 2b)	This action is non-final.				
3)[Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Dispositi	ion of Claims					
5)□ 6)⊠ 7)□	Claim(s) 1-12 is/are pending in the applica 4a) Of the above claim(s) is/are with Claim(s) is/are allowed. Claim(s) 1-12 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction as	ndrawn from consideration.				
Applicati	ion Papers					
10)	The specification is objected to by the Exar The drawing(s) filed on is/are: a) Applicant may not request that any objection to Replacement drawing sheet(s) including the country The oath or declaration is objected to by the	accepted or b) objected to be the drawing(s) be held in abeyand orrection is required if the drawing(s	e. See 37 CFR 1.85(a). i) is objected to. See 37 CFR 1.121(d).			
Priority (ınder 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
Attachmen	at(s) ce of References Cited (PTO-892)	4) 🔲 Interview Su	immary (PTO-413)			
2) Notice 3) Information	ce of References Cited (P10-892) ce of Draftsperson's Patent Drawing Review (PT0-948) mation Disclosure Statement(s) (PTO/SB/08) er No(s)/Mail Date	Paper No(s)	/Mail Date ormal Patent Application			

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DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-12 are rejected under 35 U.S.C. 102(b) as being anticipated by Shoji et al. (WO 02/25645).

Shoji et al. discloses the invention as claimed. Figs. 1-58 show the information recording apparatus and medium having information recorded by marks, wherein sub-information (sub-digital data, see the abstract) is recorded so as to be superimposed on the main data by deformation of a shape or a pattern of the recording mark or position displacement of the recording mark in accordance with the sub-information, the sub-information being subjected to data conversion on medium inherent information or apparatus nullification information that is recorded based on the information recording medium (see for example the abstract and page 32, which describes the sub-digital data that include key information relating to the medium inherent information, is recorded by edge displacement of the main data, i.e. taken to be deforming the shape of the recording mark), as set forth in claims 1-12.

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The reference further teaches: the medium inherent information includes BCA (see for example page 38, lines 16-20), as set forth in claims 2, 3, 8 and 11; and the data conversion of the sub-information includes pseudo random number sequence that is generated using an initial value a key obtained using the medium inherent information (see for example page 38, lines 3-16), as set forth in claims 4-7, 9, 10 and 12. See also the description of the figures for further details relating to the limitations as set forth in the claims.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Nagai et al. (2006/0039262) discloses an optical disk recording apparatus capable or recording sub-information with the main information.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to MUHAMMAD N. EDUN whose telephone number is 571-272-7617. The examiner can normally be reached on FLEXITIME.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hoa Nguyen can be reached on 571-272-7579. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

MUHAMMAD N EDUN Primary Examiner Art Unit 2627

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